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<u>Technology to enable learning: Strategic decisions on technology selections for</u> facilitating a network/systems laboratory using real options & total cost of ownership

theories

Kimfong Lei, Phillip T. Rawles

October 2003 Proceedings of the 4th conference on Information technology curriculum CITC4 '03

Publisher: ACM Press

Full text available: 📆 pdf(407.50 KB) Additional Information: full citation, abstract, references, index terms

This paper addresses the selection of technologies that provide each student group a dedicated environment on a non-dedicated host machine. The authors investigated different combinations of enabling technologies and approaches, such as virtual machine technology, storage technology, and host operating system. Performance tests were developed and executed to profile the performance of the technologies. The results of this work provide an evaluation of the studied technologies and a selection gui ...

Keywords: VMware, course development, curriculum, end-user computing, innovative lab strategies in IT, interesting applications in IT, networking, operating systems, systems software

Self-managing network-attached storage



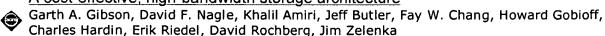
Garth A. Gibson, John Wilkes

December 1996 ACM Computing Surveys (CSUR)

Publisher: ACM Press

Full text available: html(14.41 KB) Additional Information: full citation

3 A cost-effective, high-bandwidth storage architecture



Charles Hardin, Erik Riedel, David Rochberg, Jim Zelenka October 1998 ACM SIGOPS Operating Systems Review, ACM SIGPLAN Notices,

Proceedings of the eighth international conference on Architectural support for programming languages and operating systems ASPLOS-

VIII, Volume 32, 33 Issue 5, 11

Publisher: ACM Press

Additional Information: full citation, abstract, references, citings, index

Full text available: pdf(1.67 MB)

terms

This paper describes the Network-Attached Secure Disk (NASD) storage architecture, prototype implementations of NASD drives, array management for our architecture, and three, filesystems built on our prototype. NASD provides scalable storage bandwidth without the cost of servers used primarily, for transferring data from peripheral networks (e.g. SCSI) to client networks (e.g. ethernet). Increasing datuset sizes, new attachment technologies, the convergence of peripheral and interprocessor switc ...

4 Networks: An information-interconnectivity-based retrieval method for network

attached storage

Iliyak Georgiev, Ivo I. Georgiev

April 2004 Proceedings of the 1st conference on Computing frontiers

Publisher: ACM Press

Full text available: pdf(302.56 KB) Additional Information: full citation, abstract, references, index terms

Network attached disk storage is characterized by independent network attachment and embedded intelligence. For Internet applications, it provides the key functionality of geographical replication and intelligent retrieval of data objects. The paper describes a latency reducing method based on the relative interconnectivity between data objects. We follow the locality-of-reference principle to partition interrelated data objects on close disk areas or network storage nodes. The method incorporate ...

Keywords: interconnectivity-based retrieval, network attached storage, storage objects clustering

⁵ File server scaling with network-attached secure disks



Garth A. Gibson, David F. Nagle, Khalil Amiri, Fay W. Chang, Eugene M. Feinberg, Howard Gobioff, Chen Lee, Berend Ozceri, Erik Riedel, David Rochberg, Jim Zelenka June 1997 ACM SIGMETRICS Performance Evaluation Review - Proceedings of the

June 1997 ACM SIGMETRICS Performance Evaluation Review, Proceedings of the 1997 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '97, Volume 25 Issue 1

Publisher: ACM Press

Full text available: pdf(1.77 MB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index</u> terms

By providing direct data transfer between storage and client, network-attached storage devices have the potential to improve scalability for existing distributed file systems (by removing the server as a bottleneck) and bandwidth for new parallel and distributed file systems (through network striping and more efficient data paths). Together, these advantages influence a large enough fraction of the storage market to make commodity network-attached storage feasible. Realizing the technology's ful ...

6 Session 3: Active disk paxos with infinitely many processes



Gregory Chockler, Dahlia Malkhi

July 2002 Proceedings of the twenty-first annual symposium on Principles of distributed computing

Publisher: ACM Press

Full text available: pdf(1.10 MB) Additional Information: full citation, abstract, references, citings

We present an improvement to the Disk Paxos protocol by Gafni and Lamport which utilizes extended functionality and flexibility provided by *Active Disks* and supports unmediated concurrent data access by an unlimited number of processes. The solution facilitates coordination by an infinite number of clients using finite shared memory. It is based on a collection of read-modify-write objects with faults, that emulate a new, reliable shared memory abstraction called a *ranked register*. ...

7	A cooperative asynchronous write mechanism for NAS	
٩	Lu Jun, Lu Xianliang, Han Hong, Wei Qingsong July 2002 ACM SIGOPS Operating Systems Review, Volume 36 Issue 3	
•	Publisher: ACM Press	
	Full text available: pdf(624.27 KB) Additional Information: full citation, abstract, references	
	Network Attached Storage (NAS) is the high performance storage appliance that provides shared data to clients and other servers in a Local Area Network (LAN). The existing NAS products provide file services by themselves. They can not cooperate with each other to improve performance. This paper presents an automatically cooperative asynchronous write mechanism for NAS: ACAWM. ACAWM is a set of pure software mechanisms which provide both the reliability of synchronous write operations and the per	
	Keywords: NAS, asynchronous, cache, cooperation, performance, write	
8	Wireless home music broadcasting-modifying the NSLU2 to unleash your music! John MacMichael	
	January 2006 Linux Journal, Volume 2006 Issue 141	
	Publisher: Specialized Systems Consultants, Inc. Full text available: html(15.59 KB) Additional Information: full citation, abstract, index terms	
	Don't trip over wires in your home just to listen to your MP3s. Attach a Roku Labs	
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	· ·	
9	Application performance on the Direct Access File System	
\oightarrow	Alexandra Fedorova, Margo Seltzer, Kostas Magoutis, Salimah Addetia January 2004 ACM SIGSOFT Software Engineering Notes, Proceedings of the 4th international workshop on Software and performance WOSP '04, Volume 29 Issue 1 Publisher: ACM Press	
	Full text available: pdf(1.01 MB) Additional Information: full citation, abstract, references, index terms, review	
	The Direct Access File System (DAFS) is a distributed file system built on top of direct-access transports (DAT). Direct-access transports are characterized by using remote direct memory access (RDMA) for data transfer and user-level networking. The motivation behind the DAT-enabled distributed file system architecture is the reduction of the CPU overhead on the I/O data path.We have created an implementation of DAFS for the FreeBSD platform. In this paper we describe the performance evaluation	
	Keywords : Direct Access File System, Distributed File Systems, RDMA, performance measurement	
10	An analytic model of hierarchical mass storage systems with network-attached	
٨	storage devices	
~	Daniel A. Menascé, Odysseas I. Pentakalos, Yelena Yesha May 1996 ACM SIGMETRICS Performance Evaluation Review, Proceedings of the 1996 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '96, Volume 24 Issue 1 Publisher: ACM Press	
	Full text available: pdf(974.81 KB) Additional Information: full citation, abstract, references, citings, index	

Network attached storage devices improve I/O performance by separating control and data paths and eliminating host intervention during data transfer. Devices are attached to a high speed network for data transfer and to a slower network for control messages. Hierarchical mass storage systems use disks to cache the most recently used files and tapes (robotic and manually mounted) to store the bulk of the files in the file system. This paper shows how queuing network models can be used to assess t ...

11 Power management and voltage scaling: Power-aware code scheduling for clusters



of active disks

S. W. Son, G. Chen, M. Kandemir

August 2005 Proceedings of the 2005 international symposium on Low power electronics and design ISLPED '05

Publisher: ACM Press

Full text available: 7 pdf(287.34 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we take the idea of application-level processing on disks to one level further, and focus on an architecture, called Cluster of Active Disks (CAD), where the storage system contains a network of parallel "active disks." Each individual active disk (which includes an embedded processor, disk(s), caches, memory, and interconnect) can perform some application level processing; but, more importantly, the active disks can collectively perform parallel Input/Output (I/O) and processing, ...

Keywords: cluster of active disks (CAD), compiler, scheduling

12 Minding the store



Stephen Satchell

March 2003 netWorker, Volume 7 Issue 1

Publisher: ACM Press

Full text available: pdf(141.35 KB)

* html(21.52 KB)

Additional Information: full citation, abstract, index terms

Data storage has become serious business. Here's a look at current options for the weary data-manager.

13 A distributed persistent object store for scalable service



Chao Jin, Weimin Zheng, Feng Zhou, Yinghui Wu

October 2002 ACM SIGOPS Operating Systems Review, Volume 36 Issue 4

Publisher: ACM Press

Full text available: pdf(1.03 MB)

Additional Information: full citation, abstract, references

This paper presents a distributed persistent object store designed to simplify scalable service in cluster environment. This distributed object store, called TODS (Tsinghua Object Data Store), presents a single-imaged, transparent persistent and object-oriented view of the storage devices of the whole cluster. TODS is designed to be incremental scalable and efficient, and also has the properties of the high concurrency, high throughput and availability which are necessary for scalable service. T ...

14 Putting it together: Storage and the network



Win Treese

March 2005 netWorker, Volume 9 Issue 1

Publisher: ACM Press

Full text available: pdf(145.58 KB) 1 html(13.52 KB)

Additional Information: full citation, abstract, index terms

For as long as I can remember---and probably since the invention of the computer---there

have been two rules about storage space for computer data: You never have enough of it, and if you have more, it's not connected to the right computer. Somehow this seems to be true even with the incredible increases in the capacity of disk drives, with retail prices in the neighborhood of 50 cents per gigabyte.

15 Industrial sessions: database applications: dbSwitch™: towards a database utility

Shaul Dar, Gil Hecht, Eden Shochat
June 2004 Proceedings of the 2004 ACM SIGMOD international conference on Management of data

Publisher: ACM Press

Full text available: pdf(130.85 KB) Additional Information: full citation, abstract, references

Savantis Systems' dbSwitch™ is an innovative commercial product providing database server virtualization and advancing a database utility model. The dbSwitch enables a new architecture, called a Database Area Network (DAN), which pools database server resources and shares them among multiple database applications. Specific benefits of the DAN architecture for enterprise data centers include server consolidation, improved utilization, high availability and capacity management. We describe t ...

Keywords: DAN, Database Area Network, consolidation, dbSwitch™, grid, utility

16 Caches, registers and load balancing: Deterministic load balancing and dictionaries



in the parallel disk model

Mette Berger, Esben Rune Hansen, Rasmus Pagh, Mihai P□trascu, Milan Ružić, Peter Tiedemann

July 2006 Proceedings of the eighteenth annual ACM symposium on Parallelism in algorithms and architectures SPAA '06

Publisher: ACM Press

Full text available: pdf(208.11 KB) Additional Information: full citation, abstract, references, index terms

We consider deterministic dictionaries in the parallel disk model, motivated by applications such as file systems. Our main results show that if the number of disks is moderately large (at least logarithmic in the size of the universe from which keys come), performance similar to the expected performance of randomized dictionaries can be achieved. Thus, we may avoid randomization by extending parallelism. We give several algorithms with different performance tradeoffs. One of our main tools is a ...

Keywords: deterministic, dictionary, expander graph, hashing, parallel disk model

17 TRAP-Array: A Disk Array Architecture Providing Timely Recovery to Any Point-in-



Qing Yang, Weijun Xiao, Jin Ren

time

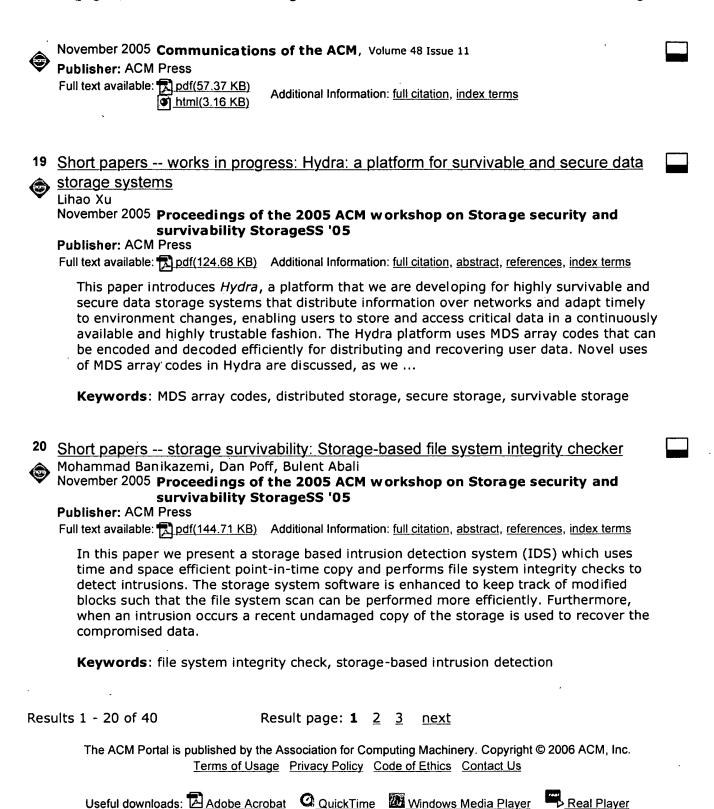
June 2006 Proceedings of the 33rd International Symposium on Computer **Architecture ISCA '06**

Publisher: IEEE Computer Society

Full text available: R pdf(379.07 KB) Additional Information: full citation, abstract

RAID architectures have been used for more than two decades to recover data upon disk failures. Disk failure is just one of the many causes of damaged data. Data can be damaged by virus attacks, user errors, defective software/firmware, hardware faults, and site failures. The risk of these types of data damage is far greater than disk failure with today's mature disk technology and networked information services. It has therefore become increasingly important for today's disk array to be able to ...

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